Supplemental figure legends.

Suppl. Fig. 1. *A*) Co-immunoprecipitation (co-IP) experiments showing that eIF4E-1, but not eIF4E-6, physically interacts with endogenous Mxt and eIF4G. (*B*) Co-IP experiments showing that eIF4E-1, but not 4E-HP, physically interacts with endogenous Mxt. Plasmids expressing 3xHA-tagged versions of eIF4E-1 and eIF4E-6 (*A*), or V5-tagged versions of eIF4E-1 and 4E-HP (*B*) were transfected into S2 cells. Co-IP were conducted using either beads alone or beads plus anti-HA (*A*) or anti-V5 (*B*) antibodies in the presence of RNase A.

Suppl. Fig. 2. Mxt binds eIF4Es via a canonical eIF4E-binding motif as tested in far-Western experiments. Constructs expressing Mxt-HA or Mxt^{AAA}-HA were transfected into S2 cells, and total cell lysates were used for Western blot using an anti-HA antibody (*A*) and Far western blot experiments (*B*) using a radiolabelled (^{32}P) HMK-eIF4E-1 as a probe.

Suppl. Fig. 3. Developmental expression of Mextli as analyzed by Western blotting. Total protein extracts (5 μg per lane) prepared from indicated developmental stages were resolved by SDS-PAGE and blotted. Mxt was detected using the affinity-purified anti-Mxt antibodies #2101. Similar results were obtained with the affinity-purified anti-Mxt antibodies #2103 (not shown). Blots were stripped and reprobed with anti-α-tubulin antibodies (loading control). Lanes 1-4, embryos from the indicated ages; lanes 5, third instar larvae stages; lane 6, pupae; lanes 7-11, adult males or females: *B*, adult body (thorax and abdomen). *H*, head. *O*, ovary.

Suppl. Fig. 4. Mxt binds Poly(A). S2 cells were transfected with a plasmid expressing a 3xHA version of Mxt or a V5-tagged version of the RNA binding protein Mxc. Total lysates of transfected cells were pull-downed either with Sepharose or with poly(A)-Sepharose. Samples were then resolved by SDS-PAGE and subjected to Western blot. To detect the different RNA binding poteins, anti-HA, anti-PABP, anti-eIF4A, anti-La or anti-V5 antibodies were used.